

The Sulfur Resistant Oxymitter 4000™

Los Alamos National Laboratory and Rosemount Analytical Inc.

Our product, the Sulfur Resistant Oxymitter 4000™, is the world's only sulfur-resistant oxygen sensor for automatic combustion control. This sensor comprises a patented, ceramic-electrode-based, oxygen cell and proprietary brazing and packaging techniques, and it has survived over 12,000 hours of continuous operation in a high-sulfur, high-temperature environment. The unique ceramic-metal-oxide electrode in our sensor decreases the need for frequent replacement or calibration and will save manufacturers and electrical utility companies money and preserve our nonrenewable fossil fuel resources.

Applications

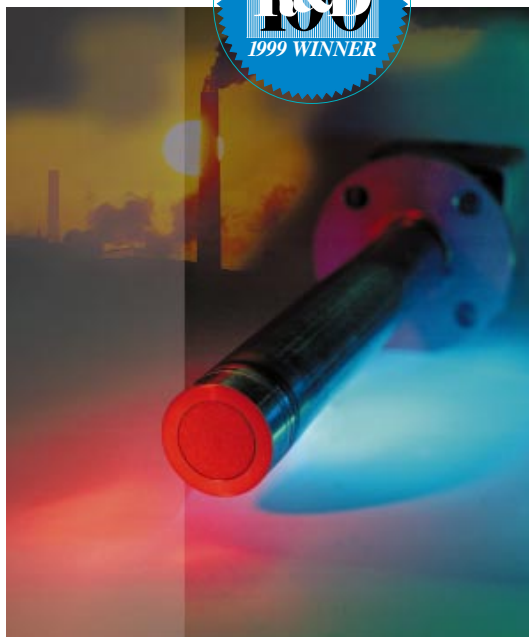
The Oxymitter 4000 will replace traditional platinum-zirconia oxygen sensors and will have applications in

- coal- and oil-fired industrial boilers;
- sulfur-recovery boilers;
- municipal utility companies that burn high-sulfur coal or heavy fuel oil;
- process heaters and furnaces that use waste gases; and
- spent-acid furnaces.

Benefits

The Sulfur Resistant Oxymitter 4000™ makes automatic combustion control affordable and available to industries around the world. The Oxymitter 4000

- has been proven to last 40 times longer than a traditional platinum-zirconia sensor in a high-sulfur, high-temperature environment; and
- does not have to be recalibrated as often as platinum-zirconia sensors, which means maintenance expenses, downtime, and staffing requirements will be reduced.



The world's only sulfur-resistant oxygen sensor for automatic combustion control.

The increased use of automatic combustion controls, like the Sulfur Resistant Oxymitter 4000™, by industry will mean decreases in

- fossil fuel wastes,
- air pollution,
- acid rain, and
- greenhouse gas emissions associated with power generation and industrial manufacturing.

Availability of applications for commercial licensing

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